CIVIL QUALITY CONSULTANTS & ENGINEERS

ISO 9001:2015 Certified & NABL Accredited Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MR/017/2021-22 Date:04.03.2022

TEST REPORT ON CEMENT

Client : **Executive Engineer,** Project Division R R Nagar Zone, BBMP, Bangalore.

Agency : **M/s. M R Infra,** Contractor, Bangalore.

Consultant Agency : M/s ESS ESS Builders

Name of Work : Construction of Rajarajeshwari school (kalpana) building in ward no.17 J.P Park, BBMP, Bangalore.

Sample : : Cement (Ramco 53 grade OPC)

Sample Supplied by: : AGENCY

Date of Manufacture: : February- 2022

Date of Testing : 02.03.2022 to 04.03.2022

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	125 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	360 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.00%	-

ESS ESS BUILDERS Bengaluru & Hassan Reg No 2555343 Architects

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AE/JE (P) R.R.N

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Assistant Executive Engineer (Project)
Bruhat Bangalore Mahanagar Palike
Rajarajeshwari Nagar Zone

Authorised Signatory

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MR/017/2021-22 Date : 04.03.2022

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Executive Engineer,** Project Division R R Nagar Zone, BBMP, Bangalore.

Agency : **M/s. M R Infra,** Contractor, Bangalore.

Consultant Agency : M/s ESS ESS Builders

Name of Work : Construction of Rajarajeshwari school (kalpana) building in ward no.17 J.P Park, BBMP, Bangalore.

Date of Testing : 04.03.2022

IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	77	7.70	7.70	92.3	90-100
2.36	115	11.50	19.20	80.8	75-100
1.18	189	18.90	38.10	61.9	55-90
600 Micron	224	22.40	60.50	39.5	35-59
300 Micron	165	16.50	77.00	23.0	8-30
150 Micron	183	18.30	95.30	4.7	0-10

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MR/017/2021-22

Date : 04.03.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** Project Division R R Nagar Zone, BBMP, Bangalore.

Agency : **M/s. M R Infra,** Contractor, Bangalore.

Consultant Agency : M/s ESS ESS Builders

Name of Work : Construction of Rajarajeshwari school (kalpana) building in ward no.17 J.P Park, BBMP, Bangalore.

Date of Testing : 04.03.2022

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	207	1.38	1.38	98.62	95-100
20	8251	55.01	56.39	43.61	30-70
10	3214	21.43	77.81	22.19	10-35
4.75	2759	18.39	96.21	3.79	0-5

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AE/JE (P) R.R.N

Assistant Executive Engineer (Project)
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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MR/017/2021-22

Date : 04.03.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** Project Division R R Nagar Zone, BBMP, Bangalore.

Agency : **M/s. M R Infra,** Contractor, Bangalore.

Consultant Agency : M/s ESS ESS Builders

Name of Work : Construction of Rajarajeshwari school (kalpana) building in ward no.17 J.P Park, BBMP, Bangalore.

Date of Testing : 04.03.2022

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	209	4.2	4.2	95.8	95-100
10	2355	47.1	51.3	48.7	25-55
4.75	2067	41.3	92.6	7.4	0-10

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MR/017/2021-22

Date : 04.03.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Executive Engineer,** Project Division R R Nagar Zone, BBMP, Bangalore.

Agency : **M/s. M R Infra,** Contractor, Bangalore.

Consultant Agency : M/s ESS ESS Builders

Name of Work : Construction of Rajarajeshwari school (kalpana) building in ward no.17 J.P Park, BBMP, Bangalore.

Date of Testing : 04.03.2022

Material : Plastering Sand

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	24	2.40	2.40	97.6	95-100
2.36	21	2.10	4.50	95.5	95-100
1.18	38	3.80	8.30	91.7	90-100
600 Micron	65	6.50	14.80	85.2	80-100
300 Micron	229	22.90	37.70	62.3	20-65
150 Micron	502	50.20	87.90	12.1	0-15

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MR/017/2021-22

Date: 09.03.2022

TEST REPORT OF PHYSICAL REQUIREMENTS OF BRICKS

Client : **Executive Engineer,** Project Division R R Nagar Zone, BBMP, Bangalore.

Agency : **M/s. M R Infra,** Contractor, Bangalore.

Consultant Agency : M/s ESS ESS Builders

Name of Work : Construction of Rajarajeshwari school (kalpana) building in ward no.17 J.P Park, BBMP, Bangalore.

Reference to BIS codes : IS 1077 : 1992(RA 2011) Common Burnt Clay Building Bricks-Specification

IS 3495 (Part 1 to 3) : 1992(RA 2011)
Method of Tests Burnt Clay Building Bricks
Part 1:Determination of Compressive Strength, (Cl 4.2.3)
Part 2:Determination of Water Absorption,(Cl 4.1.3)
Part 3: Determination of Efflorescence, (Cl 4)

Date of test 04.03.2022 to 09.03.2022

COMPRESSIVE STRENGTH

Sl.No.	Compressive strength of individual bricks (N/mm2)	Acceptability as per IS 1077:1992, Clause 7.1
1	5.6	The bricks shall have a minimum average compressive strength for various classes as given in Table 1 of IS 1077: 1992. The compressive strength of any individual bricks shall not fall below the minimum compressive strength specified for the corresponding class of brick by more than 15%.
2	5.2	
3	5.4	
4	5.3	
5	5.1	
Average of 5 bricks	5.3	

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WATER ABSORPTION:

Sl.No.	Water Absorption(%)	Acceptability as per IS 1077:1992, Clause 7.2
1	10.8	The water Absorption of bricks shall not be more than 20% by weight upto class 12.5 and 15% by weight for higher classes.
2	10.5	
3	10.2	
4	10.4	
5	10.6	
Average of 5 bricks	**10.5**	

EFFLORESCENCE:

Sl.No.	Efflorescence	Acceptability as per IS 1077:1992, Clause 7.3
1	Moderate	The efflorescence shall not be more than 'moderate" upto class 12.5 and "slight" for higher classes.
2	Moderate	
3	Moderate	
4	Moderate	
5	Moderate	

DIMENSIONS AND TOLERANCES

Sl.No.	Dimensions obtained for 20 bricks(mm)		Acceptability as per IS 1077:1992, Clause 6.2(b)
1	Length	4610	4520 to 4680 mm
2	Width	2195	2160 to 2240 mm
3	Height	1415	1360 to 1440 mm

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Assistant Executive Engineer (Project)
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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MR/017/2021-22

Date: 27.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.

Agency : **M/s. M R Infra,** Contractor, Bangalore.

Consultant Agency : M/s ESS ESS Builders

Name of the work : Construction of Rajarajeshwari school (kalpana) building in ward no.17 J.P Park, BBMP, Bangalore.

Sample ID : Cement Concrete (Third Floor Column Concrete)

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M30

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.04.2022	27.04.2022	8.159	521.6	23.18
2	20.04.2022	27.04.2022	8.123	503.9	22.40
3	20.04.2022	27.04.2022	8.047	518.5	23.04

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MR/017/2021-22

Date: 12.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.
Agency	: **M/s. M R Infra,** Contractor, Bangalore.
Consultant Agency	: M/s ESS ESS Builders
Name of the work	: Construction of Rajarajeshwari school (kalpana) building in ward no.17 J.P Park, BBMP, Bangalore.
Sample ID	: Cement Concrete (Third floor Roof Beam and Slab concrete)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M30
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.05.2022	12.05.2022	8.090	510.8	22.70
2	05.05.2022	12.05.2022	8.037	500.3	22.24
3	05.05.2022	12.05.2022	8.064	528.5	23.49

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MR/017/2021-22

Date: 12.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.
Agency	: **M/s. M R Infra,** Contractor, Bangalore.
Consultant Agency	: M/s ESS ESS Builders
Name of the work	: Construction of Rajarajeshwari school (kalpana) building in ward no.17 J.P Park, BBMP, Bangalore.
Sample ID	: Cement Concrete (Third floor Roof Beam and Slab concrete)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M30
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.05.2022	12.05.2022	8.148	500.7	22.25
2	05.05.2022	12.05.2022	8.115	519.6	23.09
3	05.05.2022	12.05.2022	8.072	529.9	23.55

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MR/017/2021-22

Date: 18.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.

Agency : **M/s. M R Infra,** Contractor, Bangalore.

Consultant Agency : M/s ESS ESS Builders

Name of the work : Construction of Rajarajeshwari school (kalpana) building in ward no.17 J.P Park, BBMP, Bangalore.

Sample ID : Cement Concrete (Third Floor Column Concrete)

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M30

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.04.2022	18.05.2022	8.016	715.2	31.79
2	20.04.2022	18.05.2022	8.059	706.3	31.39
3	20.04.2022	18.05.2022	8.087	724.4	32.20

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MR/017/2021-22

Date: 02.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.
Agency	: **M/s. M R Infra,** Contractor, Bangalore.
Consultant Agency	: M/s ESS ESS Builders
Name of the work	: Construction of Rajarajeshwari school (kalpana) building in ward no.17 J.P Park, BBMP, Bangalore.
Sample ID	: Cement Concrete (Third floor Roof Beam and Slab concrete)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M30
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.05.2022	02.06.2022	8.160	700.9	31.15
2	05.05.2022	02.06.2022	8.198	717.4	31.88
3	05.05.2022	02.06.2022	8.105	727.5	32.33

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Job No.: CQCE/BBMP/MR/017/2021-22

Date: 02.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.

Agency : **M/s. M R Infra,** Contractor, Bangalore.

Consultant Agency : M/s ESS ESS Builders

Name of the work : Construction of Rajarajeshwari school (kalpana) building in ward no.17 J.P Park, BBMP, Bangalore.

Sample ID : Cement Concrete (Third floor Roof Beam and Slab concrete)

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M30

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.05.2022	02.06.2022	8.018	723.6	32.16
2	05.05.2022	02.06.2022	8.025	711.4	31.62
3	05.05.2022	02.06.2022	8.079	702.8	31.24

Note:

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2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

ESS ESS BUILDERS Bengaluru & Hassan Reg.No 2555343 Consulting Engineer & Architects

AE/JE (P) R.R.N

Assistant Executive Engineer (Project)
Bruhat Bangalore Mahanagar Palike
Rajarajeshwari Nagar Zone

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
Contact: 8553518550, 080-23240644 Email: civilqualityconsultants@gmail.com

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CIVIL QUALITY CONSULTANTS & ENGINEERS

ISO 9001:2015 Certified & NABL Accredited Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MR/017/2021-22

Date: 29.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.

Agency : **M/s. M R Infra,** Contractor, Bangalore.

Consultant Agency : M/s ESS ESS Builders

Name of the work : Construction of Rajarajeshwari school (kalpana) building in ward no.17 J.P Park, BBMP, Bangalore.

Sample ID : Cement Concrete (Third floor Lintel beam concrete)

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.04.2022	29.04.2022	8.018	424.5	18.87
2	22.04.2022	29.04.2022	8.079	413.9	18.40
3	22.04.2022	29.04.2022	8.035	400.7	17.81

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MR/017/2021-22

Date: 20.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.

Agency : **M/s. M R Infra,** Contractor, Bangalore.

Consultant Agency : M/s ESS ESS Builders

Name of the work : Construction of Rajarajeshwari school (kalpana) building in ward no.17 J.P Park, BBMP, Bangalore.

Sample ID : Cement Concrete (Third floor Lintel beam concrete)

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.04.2022	20.05.2022	8.120	602.6	26.78
2	22.04.2022	20.05.2022	8.068	629.5	27.98
3	22.04.2022	20.05.2022	8.147	613.7	27.28

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M/s ESS ESS BUILDERS * Consulting Engineers & Architects * Bengaluru & Hassan Reg.No 2555343

Assistant Executive Engineer (Project)
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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MR/017/2021-22

Date: 02.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.

Agency : **M/s. M R Infra,** Contractor, Bangalore.

Consultant Agency : M/s ESS ESS Builders

Name of the work : Construction of Rajarajeshwari school (kalpana) building in ward no.17 J.P Park, BBMP, Bangalore.

Sample ID : Cement Concrete (Third floor Chejja Concrete)

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.04.2022	02.05.2022	8.104	362.3	16.10
2	25.04.2022	02.05.2022	8.052	370.8	16.48
3	25.04.2022	02.05.2022	8.017	388.5	17.27

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ESS ESS BUILDERS * Engineers & Architects * Bengaluru & Hassan Reg.No 2555343 * Consulting Engineer *

E/JE (P) R.R.N

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Rajarajeshwari Nagar Zone

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Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MR/017/2021-22

Date: 23.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.
Agency	: **M/s. M R Infra,** Contractor, Bangalore.
Consultant Agency	: M/s ESS ESS Builders
Name of the work	: Construction of Rajarajeshwari school (kalpana) building in ward no.17 J.P Park, BBMP, Bangalore.
Sample ID	: Cement Concrete (Third floor Chejja Concrete)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.04.2022	23.05.2022	8.169	482.3	21.44
2	25.04.2022	23.05.2022	8.192	495.6	22.03
3	25.04.2022	23.05.2022	8.113	507.2	22.54

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